

[54] **PROCESS OF PRODUCING  
FIBER-REINFORCED HARDENED BODY  
OF GYPSUM SYSTEM**

[75] Inventors: **Kinichi Kira; Yoshio Makino; Tadashi Matumoto; Yoshihiko Murata**, all of Yokoze, Japan

[73] Assignee: **Mitsubishi Mining & Cement Company, Ltd.**, Tokyo, Japan

[21] Appl. No.: **885,360**

[22] Filed: **Mar. 13, 1978**

[30] **Foreign Application Priority Data**

Mar. 23, 1977 [JP] Japan ..... 52-31116

[51] Int. Cl.<sup>2</sup> ..... **C04B 11/00**

[52] U.S. Cl. .... **106/109; 106/110; 106/117**

[58] Field of Search ..... 106/109, 110, 117

[56] **References Cited**

**U.S. PATENT DOCUMENTS**

3,096,188 7/1963 Maydh ..... 106/109

3,972,723 8/1976 Balle et al. .... 106/109  
4,018,963 4/1977 Fuji et al. .... 106/109

*Primary Examiner*—James Poer

*Attorney, Agent, or Firm*—Brooks, Haidt, Haffner & DeLahunty

[57] **ABSTRACT**

A process for producing a fiber-reinforced hardened body comprising mixing gypsum and slag in a ratio by weight of the former to the latter between 3 : 7 and 7 : 3 to prepare a main starting material, adding to the main starting material 1 - 30% by weight of reinforcing fiber, 0.1 - 5% by weight of alkali salt substance and 0.1 - 5% by weight of aluminum sulfate-containing substance, the respective amounts being based on the weight of the main starting material, further adding water to knead and mold the resulting starting material mixture, and curing the molded starting material mixture under normal condition or steam-curing the molded starting material mixture at 90° C. or below.

**33 Claims, No Drawings**